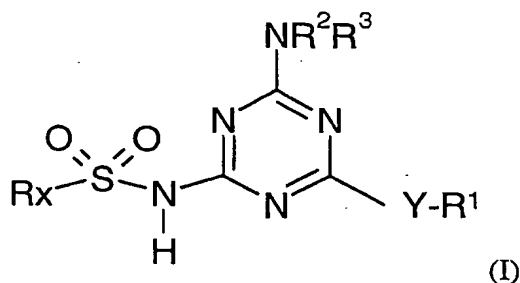


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**CLAIMS**

1. A compound of formula (1), or a pharmaceutically acceptable salt, solvate or *in vivo*  
 5 hydrolysable ester thereof:



- wherein Y is selected from a bond, -S-, -O-, -NR<sup>5</sup>-, -CF<sub>2</sub>-CH<sub>2</sub>-, -CF<sub>2</sub>CF<sub>2</sub>-, -CONR<sup>5</sup>-,  
 10 phenyl or heteroaryl.  
 wherein R<sup>1</sup> is a group selected from C<sub>3-7</sub>carbocyclyl, C<sub>1-8</sub>alkyl, C<sub>2-6</sub>alkenyl and C<sub>2-6</sub>alkynyl;  
 wherein the group is optionally substituted by 1, 2 or 3 substituents independently selected  
 from fluoro, nitrile, -OR<sup>4</sup>, -NR<sup>5</sup>R<sup>6</sup>, -CONR<sup>5</sup>R<sup>6</sup>, -COOR<sup>7</sup>, -NR<sup>8</sup>COR<sup>9</sup>, -SR<sup>10</sup>, -SO<sub>2</sub>R<sup>10</sup>,  
 -SO<sub>2</sub>NR<sup>5</sup>R<sup>6</sup>, -NR<sup>8</sup>SO<sub>2</sub>R<sup>9</sup>, phenyl or heteroaryl; wherein phenyl and heteroaryl are optionally  
 15 substituted by 1, 2 or 3 substituents independently selected from halo, cyano, nitro, -OR<sup>4</sup>, -  
 NR<sup>5</sup>R<sup>6</sup>, -CONR<sup>5</sup>R<sup>6</sup>, -COOR<sup>7</sup>, -NR<sup>8</sup>COR<sup>9</sup>, -SR<sup>10</sup>, -SO<sub>2</sub>R<sup>10</sup>, -SO<sub>2</sub>NR<sup>5</sup>R<sup>6</sup>, -NR<sup>8</sup>SO<sub>2</sub>R<sup>9</sup>,  
 C<sub>1-6</sub>alkyl and trifluoromethyl;  
 wherein R<sup>2</sup> is C<sub>3-7</sub>carbocyclyl, optionally substituted by 1, 2 or 3 substituents independently  
 selected from fluoro, -OR<sup>4</sup>, -NR<sup>5</sup>R<sup>6</sup>, -CONR<sup>5</sup>R<sup>6</sup>, -COOR<sup>7</sup>, -NR<sup>8</sup>COR<sup>9</sup>, -SR<sup>10</sup>, -SO<sub>2</sub>R<sup>10</sup>,  
 20 -SO<sub>2</sub>NR<sup>5</sup>R<sup>6</sup>, -NR<sup>8</sup>SO<sub>2</sub>R<sup>9</sup>;  
 or R<sup>2</sup> is a 3-8 membered ring optionally containing 1, 2 or 3 atoms selected from O, S, -NR<sup>8</sup>  
 and whereby the ring is optionally substituted by C<sub>1-3</sub>alkyl or fluoro;  
 or R<sup>2</sup> is a phenyl or heteroaryl, each of which is optionally substituted by 1, 2 or 3  
 substituents independently selected from halo, cyano, nitro, -OR<sup>4</sup>, -NR<sup>5</sup>R<sup>6</sup>, -CONR<sup>5</sup>R<sup>6</sup>, -  
 25 NR<sup>8</sup>COR<sup>9</sup>, -SO<sub>2</sub>NR<sup>5</sup>R<sup>6</sup>, -NR<sup>8</sup>SO<sub>2</sub>R<sup>9</sup>, C<sub>1-6</sub>alkyl and trifluoromethyl;  
 or R<sup>2</sup> is a group selected from C<sub>1-8</sub>alkyl, C<sub>2-6</sub>alkenyl or C<sub>2-6</sub>alkynyl wherein the group is  
 substituted by 1, 2 or 3 substituents independently selected from hydroxy, amino, C<sub>1-6</sub>alkoxy,  
 C<sub>1-6</sub>alkylamino, di(C<sub>1-6</sub>alkyl)amino, N-(C<sub>1-6</sub>alkyl)-N-(phenyl)amino, N-C<sub>1-6</sub>alkylcarbamoyl,

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*N,N*-di(C<sub>1-6</sub>alkyl)carbamoyl, *N*-(C<sub>1-6</sub>alkyl)-*N*-(phenyl)carbamoyl, carboxy, phenoxycarbonyl, -NR<sup>8</sup>COR<sup>9</sup>, -SO<sub>2</sub>R<sup>10</sup>, -SO<sub>2</sub>NR<sup>5</sup>R<sup>6</sup> and -NR<sup>8</sup>SO<sub>2</sub>R<sup>9</sup>;

wherein R<sup>3</sup> is hydrogen or independently R<sup>2</sup>;

R<sup>4</sup> is hydrogen or a group selected from C<sub>1-6</sub>alkyl and phenyl, wherein the group is optionally substituted by 1 or 2 substituents independently selected from halo, phenyl, -OR<sup>11</sup> and -NR<sup>12</sup>R<sup>13</sup>;

R<sup>5</sup> and R<sup>6</sup> are independently hydrogen or a group selected from C<sub>1-6</sub>alkyl and phenyl wherein the group is optionally substituted by 1, 2 or 3 substituents independently selected from halo, phenyl, -OR<sup>14</sup>, -NR<sup>15</sup>R<sup>16</sup>, -COOR<sup>14</sup>, -CONR<sup>15</sup>R<sup>16</sup>, -NR<sup>15</sup>COR<sup>16</sup>, -SO<sub>2</sub>R<sup>10</sup>, -SONR<sup>15</sup>R<sup>16</sup> and NR<sup>15</sup>SO<sub>2</sub>R<sup>16</sup>

or

R<sup>5</sup> and R<sup>6</sup> together with the nitrogen atom to which they are attached form a 4- to 7-membered saturated heterocyclic ring system optionally containing a further heteroatom selected from oxygen and nitrogen atoms, which ring is optionally substituted by 1, 2 or 3 substituents independently selected from phenyl, -OR<sup>14</sup>, -COOR<sup>14</sup>, -NR<sup>15</sup>R<sup>16</sup>, -CONR<sup>15</sup>R<sup>16</sup>, -NR<sup>15</sup>COR<sup>16</sup>, -SO<sub>2</sub>R<sup>10</sup>, -SONR<sup>15</sup>R<sup>16</sup>, NR<sup>15</sup>SO<sub>2</sub>R<sup>16</sup> or C<sub>1-6</sub>alkyl (optionally substituted by 1 or 2 substituents independently selected from halo, -NR<sup>15</sup>R<sup>16</sup> and -OR<sup>17</sup> groups);

R<sup>10</sup> is hydrogen or a group selected from C<sub>1-6</sub>alkyl or phenyl, wherein the group is optionally substituted by 1, 2 or 3 substituents independently selected from halo, phenyl, -OR<sup>17</sup> and -NR<sup>15</sup>R<sup>16</sup>; and each of R<sup>7</sup>, R<sup>8</sup>, R<sup>9</sup>, R<sup>11</sup>, R<sup>12</sup>, R<sup>13</sup>, R<sup>14</sup>, R<sup>15</sup>, R<sup>16</sup>, R<sup>17</sup> is independently hydrogen, C<sub>1-6</sub>alkyl or phenyl;

R<sup>x</sup> is trifluoromethyl, -NR<sup>5</sup>R<sup>6</sup>, phenyl, naphthyl, monocyclic or bicyclic heteroaryl wherein a heteroring may be partially or fully saturated and one or more ring carbon atoms may form a carbonyl group, and wherein each phenyl or heteroaryl group is optionally substituted by 1, 2 or 3 substituents independently selected from halo, cyano, nitro, -OR<sup>4</sup>, -NR<sup>5</sup>R<sup>6</sup>, -CONR<sup>5</sup>R<sup>6</sup>, -COR<sup>7</sup>, -COOR<sup>7</sup>, -NR<sup>8</sup>COR<sup>9</sup>, -SR<sup>10</sup>, -SO<sub>2</sub>R<sup>10</sup>, -SO<sub>2</sub>NR<sup>5</sup>R<sup>6</sup>, -NR<sup>8</sup>SO<sub>2</sub>R<sup>9</sup>, C<sub>1-6</sub>alkyl or trifluoromethyl;;

or R<sup>x</sup> is a group selected from C<sub>3-7</sub>carbocyclyl, C<sub>1-8</sub>alkyl, C<sub>2-6</sub>alkenyl and C<sub>2-6</sub>alkynyl whereby the group is optionally substituted by 1, 2 or 3 substituents independently selected from halo, -OR<sup>4</sup>, -NR<sup>5</sup>R<sup>6</sup>, -CONR<sup>5</sup>R<sup>6</sup>, -COR<sup>7</sup>, -COOR<sup>7</sup>, -NR<sup>8</sup>COR<sup>9</sup>, -SR<sup>10</sup>, -SO<sub>2</sub>R<sup>10</sup>, -SO<sub>2</sub>NR<sup>5</sup>R<sup>6</sup>, -NR<sup>8</sup>SO<sub>2</sub>R<sup>9</sup>, phenyl or heteroaryl; and wherein each phenyl or heteroaryl group is optionally substituted by 1, 2 or 3 substituents independently selected from halo, cyano, nitro, -OR<sup>4</sup>, -

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NR<sup>5</sup>R<sup>6</sup>, -CONR<sup>5</sup>R<sup>6</sup>, -COR<sup>7</sup>-COOR<sup>7</sup>, -NR<sup>8</sup>COR<sup>9</sup>, -SR<sup>10</sup>, -SO<sub>2</sub>R<sup>10</sup>, -SO<sub>2</sub>NR<sup>5</sup>R<sup>6</sup>,  
-NR<sup>8</sup>SO<sub>2</sub>R<sup>9</sup>, C<sub>1-6</sub>alkyl or trifluoromethyl;

2. A compound, or a pharmaceutically acceptable salt, solvate or *in vivo* hydrolysable ester thereof according to claim 1 wherein R<sup>2</sup> is C<sub>1-8</sub>alkyl optionally substituted by 1 or 2 hydroxy substituents.
3. A compound, pharmaceutically acceptable salt, solvate or *in vivo* hydrolysable ester thereof according to claim 1 wherein R<sup>1</sup> is benzyl or -CH<sub>2</sub>CH<sub>2</sub>OPh, or CH<sub>2</sub>CH<sub>2</sub>Ph wherein in each case the phenyl ring is optionally substituted by 1, 2 or 3 substituents independently selected from fluoro, chloro, bromo, methoxy, methyl and trifluoromethyl.
4. A compound, pharmaceutically acceptable salt, solvate or *in vivo* hydrolysable ester thereof wherein R<sup>3</sup> is hydrogen.
5. A compound, pharmaceutically acceptable salt, solvate or *in vivo* hydrolysable ester thereof wherein Y is selected from a bond, -S-, and -CF<sub>2</sub>-CH<sub>2</sub>- and -CH<sub>2</sub>-CH<sub>2</sub>-.
6. A compound, pharmaceutically acceptable salt, solvate or *in vivo* hydrolysable ester thereof wherein R<sup>x</sup> is methyl, 1-methylimidazolyl, 1,2-dimethylimidazolyl, N,N-dimethylamino, azetidiny, pyrrolidiny, morpholiny, piperidiny and trifluoromethyl
7. A compound selected from the group consisting of:  
N-[4-[(2,3-difluorophenyl)methyl]thio]-6-[[[(1R)-2-hydroxy-1-methylethyl]amino]-1,3,5-triazin-2-yl]-methanesulfonamide; and  
N-[4-[(2,3-difluorophenyl)methyl]thio]-6-[[[(1R)-2-hydroxy-1-methylethyl]amino]-1,3,5-triazin-2-yl]-1-azetidinesulfonamide, N-[4-[(2,3-difluorophenyl)methyl]thio]-6-[[[(1R)-2-hydroxy-1-methylethyl]amino]-1,3,5-triazin-2-yl]-methanesulfonamide  
N-[4-[(2,3-difluorophenyl)methyl]thio]-6-[[[(1R)-2-hydroxy-1-methylethyl]amino]-1,3,5-triazin-2-yl]-1-azetidinesulfonamide  
4-morpholinesulfonamide, N-[4-[(2,3-difluorophenyl)methyl]thio]-6-[[[(1R)-2-hydroxy-1-methylethyl]amino]-1,3,5-triazin-2-yl]-

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methanesulfonamide, *N*-[4-[[2-(2,3-difluorophenoxy)ethyl]thio]-6-[(1*R*)-2-hydroxy-1-methylethyl]amino]-1,3,5-triazin-2-yl]-

methanesulfonamide, 1,1,1-trifluoro-*N*-[4-[(1*R*)-2-hydroxy-1-methylethyl]amino]-6-(2-phenylethyl)-1,3,5-triazin-2-yl]- or a pharmaceutically acceptable salt, solvate or *in vivo*

5 hydrolysable ester thereof.

8. A compound, or a pharmaceutically acceptable salt, solvate or *in vivo* hydrolysable ester thereof according to any one of claims 1 to 7 for use as a medicament.

10 9. A compound, or a pharmaceutically acceptable salt, solvate or *in vivo* hydrolysable ester thereof according to any one of claims 1 to 7 for use as a medicament for the treatment of asthma, allergic rhinitis, COPD, inflammatory bowel disease, osteoarthritis, osteoporosis, rheumatoid arthritis, or psoriasis..

15 10. A compound, or a pharmaceutically acceptable salt, solvate or *in vivo* hydrolysable ester thereof according to any one of claims 1-7, for use as a medicament for the treatment of cancer.

11. The use of a compound, or a pharmaceutically acceptable salt, solvate or *in vivo*  
20 hydrolysable ester thereof, according to any one of claims 1 to 7 in the manufacture of a medicament for the treatment of human diseases or conditions in which modulation of chemokine receptor activity is beneficial.

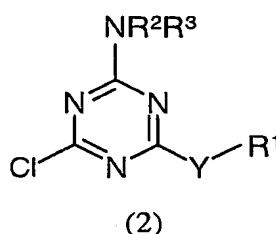
12. The use of a compound, or a pharmaceutically acceptable salt, solvate or *in vivo*  
25 hydrolysable ester thereof, according to any one of claims 1 to 7 in the manufacture of a medicament for the treatment of asthma, allergic rhinitis, COPD, inflammatory bowel disease, irritable bowel syndrome, osteoarthritis, osteoporosis, rheumatoid arthritis, or psoriasis.

30 13. The use of a compound, or a pharmaceutically acceptable salt, solvate or *in vivo* hydrolysable ester thereof, according to any one of claims 1 to 7 in the manufacture of a medicament for the treatment of cancer.

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14. A pharmaceutical composition comprising a compound, or a pharmaceutically acceptable salt, solvate or *in vivo* hydrolysable ester thereof according to any one of claims 1 to 7; and a pharmaceutically-acceptable diluent or carrier.

- 5 15. A process for the preparation of a compound according to claim 1 or a pharmaceutically acceptable salt, solvate or *in vivo* hydrolysable ester thereof, which comprises the steps of:  
treating a compound of formula (2):



wherein Y, R<sup>1</sup>, R<sup>2</sup> and R<sup>3</sup> are as defined in formula (1) with a sulfonamide of formula R<sup>x</sup>SO<sub>2</sub>NH<sub>2</sub> where R<sup>x</sup> is as defined in formula (1);

- 15 and optionally thereafter, one or more of steps (i), (ii), (iii), (iv), or (v) in any order:

i) removing any protecting groups;  
ii) converting the compound of formula (1) into a further compound of formula (1)  
iii) forming a salt  
iv) forming a prodrug

- 20 v) forming an *in vivo* hydrolysable ester.

16. A combination therapy which comprises administering a compound of formula (1) or a pharmaceutically acceptable salt, solvate or *in vivo* hydrolysable ester thereof, or a pharmaceutical composition or formulation comprising a compound of formula (1),  
25 concurrently or sequentially with other therapy and/or another pharmaceutical agent.

17. A combination therapy as claimed in claim 16 for the treatment of asthma, allergic rhinitis, COPD, inflammatory bowel disease, irritable bowel syndrome, osteoarthritis, osteoporosis, rheumatoid arthritis, or psoriasis.

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18. A combination therapy as claimed in claim 16 for the treatment of cancer.

19. A pharmaceutical composition which comprises a compound of formula (1) or a pharmaceutically acceptable salt, solvate or *in vivo* hydrolysable ester thereof, in conjunction  
5 with another pharmaceutical agent.

20. A pharmaceutical composition as claimed in claim 19 for the treatment of asthma, allergic rhinitis, COPD, inflammatory bowel disease, irritable bowel syndrome, osteoarthritis, osteoporosis, rheumatoid arthritis, or psoriasis.

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21. A pharmaceutical composition as claimed in claim 19 for the treatment of cancer.